

3. (amended) Process according to claim 1, characterized in that the organic material is dried by preheating before it being pyrolyzed, preferably in at least one specific preheating zone provided in the tubular element or elements and more preferably by electrical heating of said zone or zones by the Joule effect.

4. (amended) Process according to claim 1, characterized in that the smoke produced is condensed at the outlet of the reactor in a suitable condensation device.

5. (amended) Process according to claim 1, characterized in that at least one portion of the pyrolysis gas present at the outlet of the condensation device is re-injected into the reactor.

6. (amended) Process according to claim 1, characterized in that pyrolysis takes place under strict control, to about 0.1%, of the volume content of oxygen in said reactor.

7. (amended) Process according to claim 1, characterized in that pyrolysis takes place under precise control, to about one degree Celcius, of the temperature prevailing in said reactor.

8. (amended) Process according to claim 1, characterized in that the pyrolyzed organic material is essentially constituted by woodchips, in particular wood suitable for flavoring or aging of wine and/or spirits.

9. (amended) Process according to claim 1, characterized in that the pyrolyzed organic material is essentially constituted by fibers or chips of at least one vegetable substance such as wood, cellulose, any other polysaccharide or complex ligno-cellulose.

10. (amended) The use of a vibrated elevating reactor for the practice of the process according to the invention of claim 1, of the type comprising essentially a heatable chamber substantially sealed, containing at least one ascending tubular element that is vibrated and receiving an organic material to be pyrolyzed, for the production of smoke adapted for smoking foodstuffs.

13. (amended) Smoke adapted for smoking foodstuffs obtained by the process according to claim 1, characterized in that it has, once condensed into liquid smoke, a volume content of benzo[a]pyrene of at most 10 ppb and a volume content of benzoanthracene of at most 20 ppb.

15. (amended) Foodstuff smoked by the use of smoke according to claim 13.

Please add the following claim:

--16. (new) Foodstuff smoked by the use of a liquid smoke according to claim 14.--